

Fig. 1

Partially Ordered Set with Transitive Closure Table

POSET	A	B	C	D	dir	exec	del	a	b	c	d	e
A	1	0	0	0	0	0	0	1	1	0	0	0
B	0	1	0	0	0	0	0	1	1	1	0	0
C	0	0	1	0	0	0	0	0	0	1	0	0
D	0	0	0	1	0	0	0	0	1	0	0	1
dir	0	0	0	0	1	0	0	0	0	0	1	1
exec	0	0	0	0	0	1	0	0	0	0	1	1
del	0	0	0	0	0	0	1	0	0	0	0	1
a	0	0	0	0	0	0	0	1	1	0	0	0
b	0	0	0	0	0	0	0	0	1	0	0	0
c	0	0	0	0	0	0	0	0	0	1	0	0
d	0	0	0	0	0	0	0	0	0	0	1	1
e	0	0	0	0	0	0	0	0	0	0	0	1

202

Fig. 2A

	A	B	C	D	dir	exec	del
a	1	1	0	0	0	0	0
b	1	1	0	1	0	0	0
c	0	1	1	0	0	0	0
d	0	0	0	0	1	1	0
e	0	0	0	1	1	1	1

Fig. 2B

Temporal Order Table (TOT)

TOT	A	B	C	D	dir	exec	del
a							
b							
c							
d					1	2	
e				1	2.1	2.2	3

Fig. 3

Process/User Access Table (PUAT)

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0	1	0	2	0	2	1
3(2)	0	1	0	2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

Fig. 4A

Temporal Access Table (TAT)

Usr	A	B	C	D	dir	exec	del
1(1)					102	112	
2(1)							
3(2)					111	103	
4(1)							
5(3)							

Fig. 4B

Combinatorial Classification Table (CCT)

CCT	A	B	C	D	dir	exec	del
a	2	2	0	0	0	0	0
b	3	3	0	3	0	0	0
c	0	3	3	0	0	0	0
d	0	0	0	0	3	3	0
e	0	0	0	5	5	5	5

Fig. 5

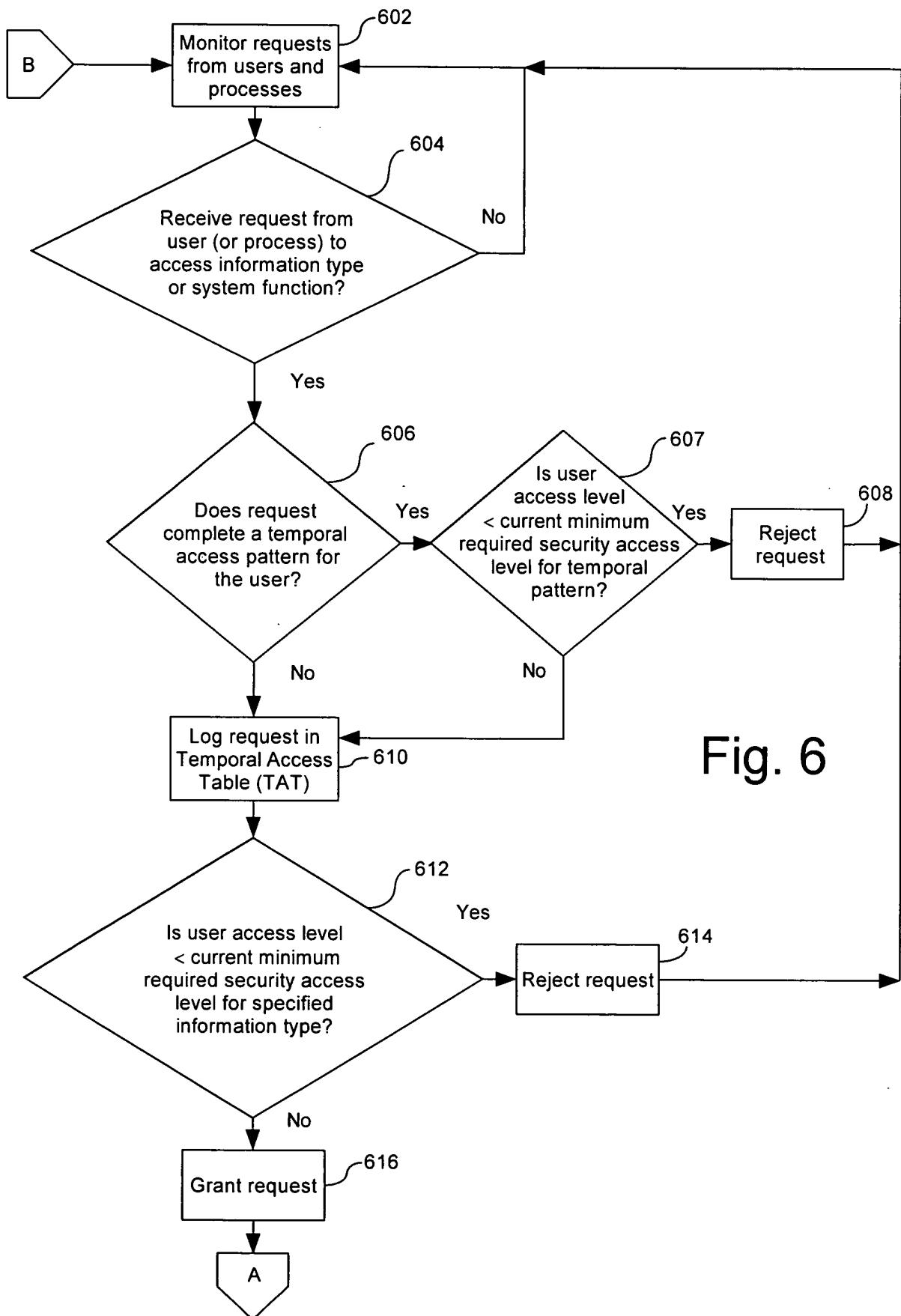


Fig. 6

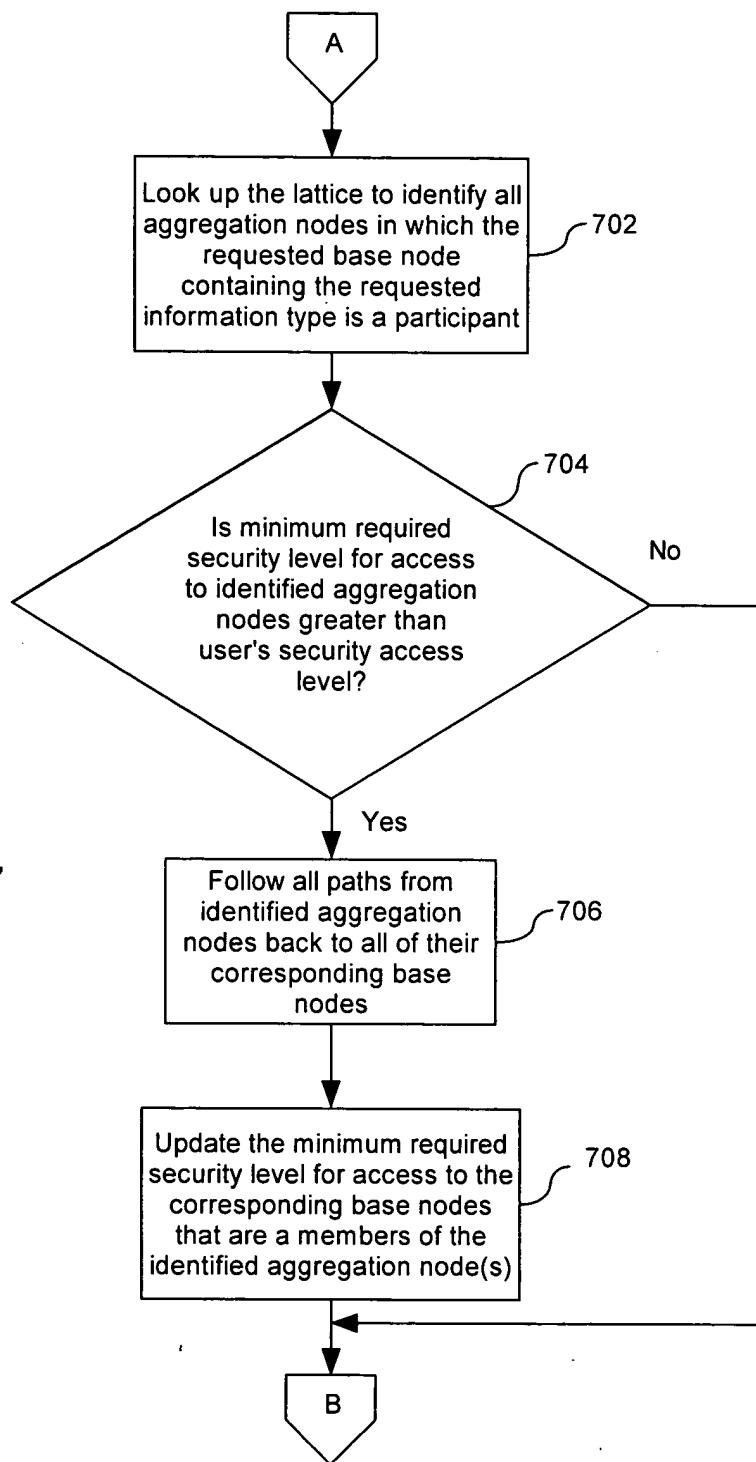


Fig. 7

Fig. 8A

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0	1	0	2	0	2	1
3(2)	0	1	0	2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

Fig. 8B

TOT	A	B	C	D	dir	exec	del
a							
b							
c							
d					1	2	
e					1	2.1	2.2
							3

Fig. 8C

CCT	A	B	C	D	dir	exec	del
a	2	2	0	0	0	0	0
b	3	3	0	3	0	0	0
c	0	3	3	0	0	0	0
d	0	0	0	0	3	3	0
e	0	0	0	5	5	5	5

Fig. 8D

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0/1	2	0	2	0	2	1
3(2)	0	1	0	2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

Fig. 8E

TOT	A	B	C	D	dir	exec	del
a							
b							
c							
d					1	2	
e					1	2.1	2.2
							3

Fig. 9A

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0	1	0	2	0	2	1
3(2)	0	1	0	2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

Fig. 9B

TOT	A	B	C	D	dir	exec	del
a							
b							
c							
d					1	2	
e					1	2.1	2.2
							3

Fig. 9C

CCT	A	B	C	D	dir	exec	del
a	2	2	0	0	0	0	0
b	3	3	0	3	0	0	0
c	0	3	3	0	0	0	0
d	0	0	0	0	3	3	0
e	0	0	0	5	5	5	5

Fig. 9D

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0	1	0	2	0	2	1
3(2)	0/1	2	0	2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

Fig. 9E

TOT	A	B	C	D	dir	exec	del
a							
b							
c							
d					1	2	
e					1	2.1	2.2
							3

Fig. 9F

CCT	A	B	C	D	dir	exec	del
a	2	2	0	0	0	0	0
b	3	3	0	3	0	0	0
c	0	3	3	0	0	0	0
d	0	0	0	0	3	3	0
e	0	0	0	5	5	5	5

Fig. 9G

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0	1	0	2	0	2	1
3(2)	0/1	3	0	2/2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

Fig. 9H

TOT	A	B	C	D	dir	exec	del
a							
b							
c							
d					1	2	
e					1	2.1	2.2
							3

Fig. 9J

Usr	A	B	C	D	dir	exec	del
1(1)	0	1	0	2	0	2	1
2(1)	0	1	0	2	0	2	1
3(2)	0/1	3	0	2/2	0	2	1
4(1)	0	1	0	2	0	2	1
5(3)	0	1	0	2	0	2	1

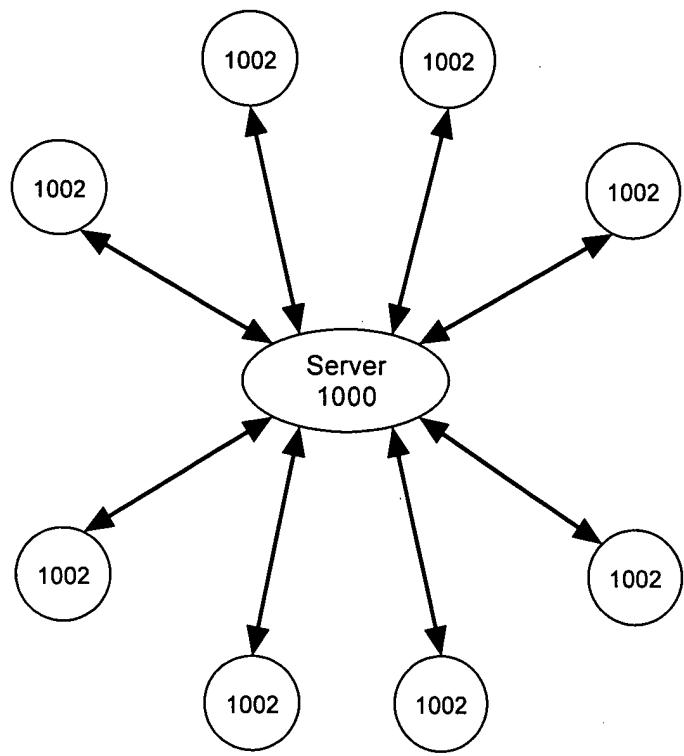


Fig. 10